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Date	Signature
<u>Ann M. Giso</u>	
Typed or printed name of person signing certificate	

REVOCATION OF POWERS OF ATTORNEY
AND APPOINTMENT OF NEW ATTORNEYS AND/OR AGENTS
AND CHANGE OF CORRESPONDENCE ADDRESS

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Massachusetts Institute of Technology, a corporation duly organized under the laws of the Commonwealth of Massachusetts, together with The Penn State Research Foundation, a corporation organized and existing under the laws of the State of Pennsylvania, are the assignees of the entire right, title and interest in the patent applications/patents identified in Attachment A. Massachusetts Institute of Technology and The Penn State Research Foundation hereby appoints Carolyn S. Elmore, Registration No. 37,567 and Anne I. Craig, Registration Number 32,976, and/or agents associated with:

Elmore Craig, P.C.
209 Main Street
No. Chelmsford, Massachusetts 01863

to prosecute the identified applications/patents and any divisions or continuations thereof and to conduct all business in the United States Patent and Trademark Office. All previously granted Powers of Attorney are hereby revoked.

Statements under 37 C.F.R. §3.73(b) with Attachment A are submitted herewith.

All correspondence should be sent to Elmore Craig, P.C., 209 Main Street, No.
Chelmsford, Massachusetts 01863. Please direct all telephone calls to Carolyn S. Elmore, Esq.
at (978) 273-3298.

Respectfully submitted,

Massachusetts Institute of Technology

By _____

Title: _____

Date _____

The Penn State Research Foundation

By: Ronald J. Huss
Ronald J. Huss

Title: Director Intellectual Property Office

Date: June 6, 2003

ATTACHMENT A

Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, and Robert S. Langer	Atty. Docket No.: 2846.1001-000	
Application No.:	08/655,570	Group:	1615
Filed:	May 24, 1996	Examiner:	R. Bawa
Confirmation No.:	N/A		
Title:	Porous Particles for Pulmonary Drug Delivery		
Patent No.:	N/A	Granted:	N/A
Assignee:	1. Massachusetts Institute of Technology 2. The Penn State Research Foundation		
Recordation Date:	1. July 26, 1996 2. March 5, 1998	Reel: 1. 9013 2. 8875	Frames: 1. 0930-0934 2. 0876-0885

Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Abdellaziz Ben-Jebria and Robert S. Langer	Atty. Docket No.: 2846.1001-001
Application No.:	09/194,068	Group: 1619
Filed:	May 23, 1997 (Int'l Filing Date) April 8, 1999 (371(c) Date)	Examiner: R. Bawa
Confirmation No.:	2765	
Title:	Aerodynamically Light Particles for Pulmonary Drug Delivery	
Patent No.:	6,503,480	Granted: January 7, 2003
Assignee:	1. Massachusetts Institute of Technology 2. The Penn State Research Foundation	
Recordation Date:	1. April 8, 1999 2. April 8, 1999	Reel: 1. 9923 2. 9925 Frames: 1. 0384-0392 2. 0098-0103
Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Robert S. Langer and Abdellaziz Ben-Jebria	Atty. Docket No.:2846.1001-007
Application No.:	09/569,153	Group: 1619
Filed:	May 11, 2000	Examiner: R. Bawa
Confirmation No.:	N/A	
Title:	Porous Particles for Deep Lung Delivery (As Amended)	
Patent No.:	6,254,854	Granted: July 3, 2001
Assignee:	1. The Penn State Research Foundation 2. Massachusetts Institute of Technology	
Recordation Date:	1. October 30, 2000 2. July 26, 1996	Reel: 1. 011211 2. 8875 Frames: 1. 0319-0321 2. 0876-0875

Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Robert S. Langer and Abdellaziz Ben-Jebria	Atty. Docket No.: 2846.1001-008
Application No.:	09/888,688	Group: 1616
Filed:	June 25, 2001	Examiner: R. Bawa
Confirmation No.:	2505	
Title:	Porous Particles Comprising Excipients For Deep Lung Delivery (As Amended)	
Patent No.:	6,436,443B2	Granted: August 20, 2002
Assignee:	1. The Penn State Research Foundation 2. Massachusetts Institute of Technology	
Recordation Date:	1. October 30, 2000 2. July 26, 1996	Reel: 1. 011211 2. 8875 Frames: 1. 0319-0321 2. 0876-0875
Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Robert S. Langer and Abdellaziz Ben-Jebria	Atty. Docket No.: 2846.1001-009
Application No.:	09/891,131	Group: 1616
Filed:	June 25, 2001	Examiner: Mina Haghighatian
Confirmation No.:	2511	
Title:	Spray Dried Porous Particles For Deep Lung Delivery (As Amended)	
Patent No.:	6,447,753	Granted: September 10, 2002
Assignee:	1. The Penn State Research Foundation 2. Massachusetts Institute of Technology	
Recordation Date:	1. October 30, 2000 2. July 26, 1996	Reel: 1. 011211 2. 8875 Frames: 1. 0319-0321 2. 0876-0875

Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Robert S. Langer, and Abdellaziz Ben-Jebria	Atty. Docket No.: 2846.1001-010
Application No.:	09/888,781	Group: 1616
Filed:	June 25, 2001	Examiner: Mina Haghighatian
Confirmation No.:	9010	
Title:	Amorphous Porous Particles For Deep Lung Delivery (As Amended)	
Patent No.:	6,447,752	Granted: September 10, 2002
Assignee:	1. The Penn State Research Foundation 2. Massachusetts Institute of Technology	
Recordation Date:	1. October 30, 2000 2. July 26, 1996	Reel: 1. 011211 2. 8875 Frames: 1. 0319-0321 2. 0876-0875

Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Abdellaziz Ben-Jebria and Robert S. Langer	Atty. Docket No.: 2846.1001-028
Application No.:	10/090,418	Group: 1617
Filed:	March 1, 2002	Examiner: n/a
Confirmation No.:	8180	
Title:	Aerodynamically Light Particles For Pulmonary Drug Delivery	
Patent No.:	N/A	Granted: N/A
Assignee:	1. The Penn State Research Foundation 2. Massachusetts Institute of Technology	
Recordation Date:	1. April 8, 1999 2. April 8, 1999	Reel: 1. 9925 2. 9923 Frame(s): 1. 0098-0102 2. 0384-0392

Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Robert S. Langer, and Abdellaziz Ben-Jebria	Atty. Docket No.: 2846.1001-031
Application No.:	10/209,654	Group: 1616
Filed:	July 30, 2002	Examiner: Not assigned
Confirmation No.:	5830	
Title:	Porous Particles Comprising Excipients For Deep Lung Delivery	
Patent No.:	N/A	Granted: N/A
Assignee:	1. Massachusetts Institute of Technology 2. The Penn State Research Foundation	
Recordation Date:	1. March 5, 1998 2. October 30, 2000	Reel: 1. 9013 2. 011211 Frames: 1. 0930-0934 2. 0319-0321
Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Abdellaziz Ben-Jebria, and Robert S. Langer	Atty. Docket No.: 2846.1002-000
Application No.:	08/739,308	Group: 1615
Filed:	October 29, 1996	Examiner: Raj Bawa
Confirmation No.:	N/A	
Title:	Aerodynamically Light Particles For Pulmonary Drug Delivery	
Patent No.:	5,874,064	Granted: February 23, 1999
Assignee:	1. Massachusetts Institute of Technology 2. The Penn State Research Foundation	
Recordation Date:	1. January 17, 1997 2. January 17, 1997	Reel: 1. 8388 2. 8388 Frames: 1. 0959-0965 2. 0917-0918

Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Abdellaziz Ben-Jebria, and Robert S. Langer	Atty. Docket No.: 2846.1002-001
Application No.:	09/211,940	Group: 1615
Filed:	December 15, 1998	Examiner: S. Howard
Confirmation No.:	N/A	
Title:	Aerodynamically Light Particles For Pulmonary Drug Delivery	
Patent No.:	6,136,295	Granted: October 24, 2000
Assignee:	1. Massachusetts Institute of Technology 2. The Penn State Research Foundation	
Recordation Date:	1. January 17, 1997 2. January 17, 1997	Reel: 1. 8388 Frames: 1. 0959-0965 2. 8388 2. 0917-0918

Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Abdellaziz Ben-Jebria, and Robert s. Langer	Atty. Docket No.: 2846.1002-002
Application No.:	09/562,988	Group: 1615
Filed:	May 1, 2000	Examiner: S. Howard
Confirmation No.:	N/A	
Title:	Aerodynamically Light Particles For Pulmonary Drug Delivery	
Patent No.:	6,399,102	Granted: June 4, 2002
Assignee:	1. The Penn State Research Foundation 2. Massachusetts Institute of Technology	
Recordation Date:	1. August 29, 2000 2. August 29, 2000	Reel: 1. 011098 Frames: 1. 0746-0749 2. 011098 2. 0720-0724

Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Abdellaziz Ben-Jebria, and Robert S. Langer	Atty. Docket No.: 2846.1002-003
Application No.:	90/006,092	Group: 1616
Filed:	August 22, 2001	Examiner: Mina Haghighatian
Confirmation No.:	7468	
Title:	Aerodynamically Light Particles For Pulmonary Drug Delivery	
Patent No.:	5,874,064C1	Certificate Issued: December 10, 2002
Assignee:	1. Massachusetts Institute of Technology 2. The Penn State Research Foundation	
Recordation Date:	1. January 17, 1997 2. January 17, 1997	Reel: 1. 8388 Frames: 1. 0959-0965 2. 8388 2. 0917-0918

Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Abdellaziz Ben-Jebria, and Robert S. Langer	Atty. Docket No.: 2846.1002-004
Application No.:	90/006,094	Group: 1616
Filed:	August 22, 2001	Examiner: Mina Haghighatian
Confirmation No.:	7466	
Title:	Aerodynamically Light Particles For Pulmonary Drug Delivery	
Patent No.:	6,136,295C1	Granted: October 29, 2002
Assignee:	1. Massachusetts Institute of Technology 2. The Penn State Research Foundation	
Recordation Date:	1. January 17, 1997 2. January 17, 1997	Reel: 1. 8388 Frames: 1. 0959-0965 2. 8388 2. 0917-0918

Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Abdellazai Ben-Jebria, and Robert S. Langer	Atty. Docket No.: 2846.1002-005
Application No.:	10/027,212	Group: 1615
Filed:	December 20, 2001	Examiner: Sharon Lee Howard
Confirmation No.:	1760	
Title:	Aerodynamically Light Particles For Pulmonary Drug Delivery	
Patent No.:	N/A	Granted: N/A
Assignee:	1. The Penn State Research Foundation 2. Massachusetts Institute of Technology	
Recordation Date:	1. August 29, 2000 2. August 29, 2000	Reel: 1. 011098 Frames: 1. 0746-0749 2. 011098 2. 0720-0724
Applicants:	Justin Hanes, David A. Edwards, Carmen Evora, and Robert L. Langer	Atty. Docket No.: 2846.1003-000
Application No.:	08/784,421	Group: 1615
Filed:	January 16, 1997	Examiner: G. Kishore
Confirmation No.:	N/A	
Title:	Particles Incorporating Surfactants For Pulmonary Drug Delivery	
Patent No.:	5,855,913	Granted: January 5, 1999
Assignee:	1. Massachusetts Institute of Technology 2. The Penn State Research Foundation	
Recordation Date:	1. March 20, 1997 2. March 20, 1997	Reel: 1. 8531 Frames: 1. 0042-0046 2. 8529 2. 0138-0140

Applicants:	David A. Edwards, Robert S. Langer, Rita Vanbever, Jeffrey Mintzes, Jue Wang, and Donghao Chen	Atty. Docket No.: 2846.1003-006
Application No.:	09/394,233	Group: 1616
Filed:	September 13, 1999	Examiner: Mina Haghighatian
Confirmation No.:	3922	
Title:	Preparation of Novel Particles For Inhalation	
Patent No.:	N/A	Granted: N/A
Assignee:	1. Massachusetts Institute of Technology 2. The Penn State Research Foundation	
Recordation Date:	1. January 3, 2000 2. January 3, 2000	Reel: 1. 010504 2. 010504 Frames: 1. 0362-0367 2. 0329-0333
Applicants:	Justin Hanes, David A. Edwards, Carmen Evora, and Robert S. Langer	Atty. Docket No.: 2846.1003-007
Application No.:	09/351,341	Group: 1615
Filed:	July 12, 1999	Examiner: G. Kishore
Confirmation No.:	N/A	
Title:	Particles Incorporating Surfactants For Pulmonary Drug Delivery	
Patent No.:	RE37,053 E	Granted: February 13, 2001
Assignee:	1. Massachusetts Institute of Technology 2. The Penn State Research Foundation	
Recordation Date:	1. March 20, 1997 2. March 20, 1997	Reel: 1. 8531 2. 8529 Frames: 1. 0042-0046 2. 0138-0140

Applicants:	David A. Edwards, Robert S. Langer, Rita Vanbever, Jeffrey Mintzes, Jue Wang and Donghao Chen	Atty. Docket No.: 2846.1003-008
Application No.:	08/971,791	Group: 1616
Filed:	November 17, 1997	Examiner: K. Shelborne
Confirmation No.:	N/A	
Title:	Preparation of Particles For Inhalation	
Patent No.:	5,985,309	Granted: November 16, 1999
Assignee:	1. Massachusetts Institute of Technology 2. The Penn State Research Foundation	
Recordation Date:	1. December 22, 1997 2. December 22, 1997	Reel: 1. 9108 2. 9108 Frames: 1. 0667-0671 2. 0695-0702
Applicants:	David A. Edwards, Robert S. Langer, Rita Vanbever, Jeffrey Mintzes, Jue Wang, and Donghao Chen	Atty. Docket No.: 2846.1003-009
Application No.:	09/752,106	Group: 1616
Filed:	December 29, 2000	Examiner: Mina Haghighatian
Confirmation No.:	8230	
Title:	Particles For Inhalation Having Sustained Release Properties	
Patent No.:	N/A	Granted: N/A
Assignee:	1. Massachusetts Institute of Technology 2. The Penn State Research Foundation	
Recordation Date:	1. August 13, 2001 2. August 13, 2001	Reel: 1. 012078 2. 012078 Frames: 1. 0137-0140 2. 0156-0164

Applicants:	David A. Edwards, Robert S. Langer, Rita Vanbever, Jeffrey Mintzes, Jue Wang, and Donghao Chen	Atty. Docket No.: 2846.1003-010
Application No.:	09/909,145	Group: 1619
Filed:	July 19, 2001	Examiner: Not Assigned
Confirmation No.:	7807	
Title:	Particles For Inhalation Having Sustained Release Properties	
Patent No.:	N/A	Granted: N/A
Assignee:	1. Massachusetts Institute of Technology 2. The Penn State Research Foundation	
Recordation Date:	1. January 3, 2000 2. January 3, 2000	Reel: 1. 010504 2. 010504 Frames: 1. 0362-0367 2. 0329-0333
Applicants:	Rita Vanbever, Jeffrey Mintzes, Jue Wang, Donghao Chen, Robert S. Langer, and David A. Edwards	Atty. Docket No.: 2846.1003-011
Application No.:	60/059,004	Group: N/A
Filed:	September 15, 1997	Examiner: N/A
Confirmation No.:	N/A	
Title:	Preparation of Novel Particles for Inhalation	
Patent No.:	N/A	Granted: N/A
Assignee:	N/A	
Recordation Date:	N/A	Reel: N/A Frame(s): N/A

Applicants:	David A. Edwards, Robert S. Langer, Rita Vanbever, Jeffrey Mintzes, Jue Wang, and Donghao Chen	Atty. Docket No.: 2846.1003-012
Application No.:	09/006,091	Group: 1616
Filed:	July 12, 1999	Examiner: Mina Haghighatian
Confirmation No.:	7469	
Title:	Particles Incorporating Surfactants For Pulmonary Drug Delivery	
Patent No.:	RE37,053	Granted: February 13, 2001
Assignee:	1. Massachusetts Institute of Technology 2. The Penn State Research Foundation	
Recordation Date:	1. March 20, 1997 2. March 20, 1997	Reel: 1. 8531 2. 8529 Frames: 1. 0042-0046 2. 0138-0140
Applicants:	David A. Edwards, Robert S. Langer, Rita Vanbever, Jeffrey Mintzes, Jue Wang, and Donghao Chen	Atty. Docket No.: 2846.1003-013
Application No.:	90/006,093	Group: 1616
Filed:	August 22, 2001	Examiner: Mina Haghighatian
Confirmation No.:	7467	
Title:	Preparation Of Particles For Inhalation	
Patent No.:	5,985,309 C1	Granted: December 31, 2002
Assignee:	1. Massachusetts Institute of Technology 2. The Penn State Research Foundation	
Recordation Date:	1. December 22, 1997 2. December 22, 1997	Reel: 1. 9108 2. 9108 Frames: 1. 0667-0671 2. 0695-0702

Applicants:	Rita Vanbever, Robert S. Langer, David A. Edwards, Jeffrey Mintzes, Jue Wang, and Donghao Chen	Atty. Docket No.: 2846.1003-014
Application No.:	10/094,955	Group: 1616
Filed:	March 7, 2002	Examiner: Mina Haghighatian
Confirmation No.:	7624	
Title:	Particles For Inhalation Having Sustained Release Properties	
Patent No.:	N/A	Granted: N/A
Assignee:	1. The Penn State Research Foundation 2. Massachusetts Institute of Technology	
Recordation Date:	1. November 7, 2002 2. November 7, 2002	Reel: 1. 013470 2. 013468 Frames: 1. 0864-0867 2. 0360-0368
Application No.:	10/420,071	Group: Not assigned
Filed:	April 18, 2003	Examiner: Not assigned
Confirmation No.:	N/A	
Title:	Particles for Inhalation Having Sustained Release Properties	
Patent No.:	N/A	Granted: N/A
Assignee:	1. Massachusetts Institute of Technology 2. The Penn State Research Foundation	
Recordation Date:	1. August 13, 2001 2. August 13, 2001	Reel: 1. 012078 2. 012078 Frames: 1. 0156-0164 2. 0137-0140



STATEMENT UNDER 37 C.F.R. § 3.73(b)

The Penn State Research Foundation, a

(Name of Assignee)

corporation

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is

- A. ☒ the assignee, together with Massachusetts Institute of Technology, of the entire right, title and interest in the patent application(s)/patents identified in the attached Attachment A; or
- B. ☐ an assignee together with [] of the entire right, title and interest in the patent application identified above.

The right, title and interest of the above-named assignee in the patent application identified above is established by virtue of:

- A. ☒ An assignment from the inventor(s) of the patent application(s)/patents identified in Attachment A. The assignment was recorded in the Patent and Trademark Office at the Reel(s) and Frame(s) indicated in Attachment A, or a copy thereof is attached.

OR

- B. ☐ A chain of title from the inventor(s) of the patent application identified above, to the current assignee as shown below:

1. From: To:
The document was recorded in the Patent and Trademark Office at
Reel _____, Frame _____, or a copy thereof is attached.
2. From: To:
The document was recorded in the Patent and Trademark Office at
Reel _____, Frame _____, or a copy thereof is attached.
3. From: To:
The document was recorded in the Patent and Trademark Office at
Reel _____, Frame _____, or a copy thereof is attached.

- ☐ Additional documents in the chain of title are listed on a supplemental sheet.

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

Date: June 6, 2003

Name: Ronald J. Huss

Title: Director, Intellectual Property Office

Signature: Ronald J. Huss

ATTACHMENT A

Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, and Robert S. Langer	Atty. Docket No.: 2846.1001-000	
Application No.:	08/655,570	Group:	1615
Filed:	May 24, 1996	Examiner:	R. Bawa
Confirmation No.:	N/A		
Title:	Porous Particles for Pulmonary Drug Delivery		
Patent No.:	N/A	Granted:	N/A
Assignee:	1. Massachusetts Institute of Technology 2. The Penn State Research Foundation		
Recordation Date:	1. July 26, 1996 2. March 5, 1998	Reel: 1. 9013 2. 8875	Frames: 1. 0930-0934 2. 0876-0885

Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Abdellaziz Ben-Jebria and Robert S. Langer	Atty. Docket No.: 2846.1001-001
Application No.:	09/194,068	Group: 1619
Filed:	May 23, 1997 (Int'l Filing Date) April 8, 1999 (371(c) Date)	Examiner: R. Bawa
Confirmation No.:	2765	
Title:	Aerodynamically Light Particles for Pulmonary Drug Delivery	
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Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Robert S. Langer and Abdellaziz Ben-Jebria	Atty. Docket No.: 2846.1001-007
Application No.:	09/569,153	Group: 1619
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Recordation Date:	1. October 30, 2000 2. July 26, 1996	Reel: 1. 011211 2. 8875 Frames: 1. 0319-0321 2. 0876-0875

Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Robert S. Langer and Abdellaziz Ben-Jebria	Atty. Docket No.: 2846.1001-008
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Assignee:	1. The Penn State Research Foundation 2. Massachusetts Institute of Technology	
Recordation Date:	1. October 30, 2000 2. July 26, 1996	Reel: 1. 011211 2. 8875 Frames: 1. 0319-0321 2. 0876-0875

Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Robert S. Langer and Abdellaziz Ben-Jebria	Atty. Docket No.: 2846.1001-009
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Patent No.:	6,447,753	Granted: September 10, 2002
Assignee:	1. The Penn State Research Foundation 2. Massachusetts Institute of Technology	
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Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Robert S. Langer, and Abdellaziz Ben-Jebria	Atty. Docket No.: 2846.1001-010
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Recordation Date:	1. October 30, 2000 2. July 26, 1996	Reel: 1. 011211 2. 8875 Frames: 1. 0319-0321 2. 0876-0875
Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Abdellaziz Ben-Jebria and Robert S. Langer	Atty. Docket No.: 2846.1001-028
Application No.:	10/090,418	Group: 1617
Filed:	March 1, 2002	Examiner: n/a
Confirmation No.:	8180	
Title:	Aerodynamically Light Particles For Pulmonary Drug Delivery	
Patent No.:	N/A	Granted: N/A
Assignee:	1. The Penn State Research Foundation 2. Massachusetts Institute of Technology	
Recordation Date:	1. April 8, 1999 2. April 8, 1999	Reel: 1. 9925 2. 9923 Frame(s): 1. 0098-0102 2. 0384-0392

Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Robert S. Langer, and Abdellaziz Ben-Jebria	Atty. Docket No.: 2846.1001-031
Application No.:	10/209,654	Group: 1616
Filed:	July 30, 2002	Examiner: Not assigned
Confirmation No.:	5830	
Title:	Porous Particles Comprising Excipients For Deep Lung Delivery	
Patent No.:	N/A	Granted: N/A
Assignee:	1. Massachusetts Institute of Technology 2. The Penn State Research Foundation	
Recordation Date:	1. March 5, 1998 2. October 30, 2000	Reel: 1. 9013 2. 011211 Frames: 1. 0930-0934 2. 0319-0321

Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Abdellaziz Ben-Jebria, and Robert S. Langer	Atty. Docket No.: 2846.1002-000
Application No.:	08/739,308	Group: 1615
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Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Abdellaziz Ben-Jebria, and Robert S. Langer	Atty. Docket No.: 2846.1002-001
Application No.:	09/211,940	Group: 1615
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Title:	Aerodynamically Light Particles For Pulmonary Drug Delivery	
Patent No.:	6,136,295	Granted: October 24, 2000
Assignee:	1. Massachusetts Institute of Technology 2. The Penn State Research Foundation	
Recordation Date:	1. January 17, 1997 2. January 17, 1997	Reel: 1. 8388 2. 8388 Frames: 1. 0959-0965 2. 0917-0918

Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Abdellaziz Ben-Jebria, and Robert s. Langer	Atty. Docket No.: 2846.1002-002
Application No.:	09/562,988	Group: 1615
Filed:	May 1, 2000	Examiner: S. Howard
Confirmation No.:	N/A	
Title:	Aerodynamically Light Particles For Pulmonary Drug Delivery	
Patent No.:	6,399,102	Granted: June 4, 2002
Assignee:	1. The Penn State Research Foundation 2. Massachusetts Institute of Technology	
Recordation Date:	1. August 29, 2000 2. August 29, 2000	Reel: 1. 011098 2. 011098 Frames: 1. 0746-0749 2. 0720-0724

Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Abdellaziz Ben-Jebria, and Robert S. Langer	Atty. Docket No.: 2846.1002-003
Application No.:	90/006,092	Group: 1616
Filed:	August 22, 2001	Examiner: Mina Haghighatian
Confirmation No.:	7468	
Title:	Aerodynamically Light Particles For Pulmonary Drug Delivery	
Patent No.:	5,874,064C1	Certificate Issued: December 10, 2002
Assignee:	1. Massachusetts Institute of Technology 2. The Penn State Research Foundation	
Recordation Date:	1. January 17, 1997 2. January 17, 1997	Reel: 1. 8388 Frames: 1. 0959-0965 2. 8388 2. 0917-0918
Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Abdellaziz Ben-Jebria, and Robert S. Langer	Atty. Docket No.: 2846.1002-004
Application No.:	90/006,094	Group: 1616
Filed:	August 22, 2001	Examiner: Mina Haghighatian
Confirmation No.:	7466	
Title:	Aerodynamically Light Particles For Pulmonary Drug Delivery	
Patent No.:	6,136,295C1	Granted: October 29, 2002
Assignee:	1. Massachusetts Institute of Technology 2. The Penn State Research Foundation	
Recordation Date:	1. January 17, 1997 2. January 17, 1997	Reel: 1. 8388 Frames: 1. 0959-0965 2. 8388 2. 0917-0918

Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Abdellazai Ben-Jebria, and Robert S. Langer	Atty. Docket No.: 2846.1002-005
Application No.:	10/027,212	Group: 1615
Filed:	December 20, 2001	Examiner: Sharon Lee Howard
Confirmation No.:	1760	
Title:	Aerodynamically Light Particles For Pulmonary Drug Delivery	
Patent No.:	N/A	Granted: N/A
Assignee:	1. The Penn State Research Foundation 2. Massachusetts Institute of Technology	
Recordation Date:	1. August 29, 2000 2. August 29, 2000	Reel: 1. 011098 2. 011098 Frames: 1. 0746-0749 2. 0720-0724
Applicants:	Justin Hanes, David A. Edwards, Carmen Evora, and Robert L. Langer	Atty. Docket No.: 2846.1003-000
Application No.:	08/784,421	Group: 1615
Filed:	January 16, 1997	Examiner: G. Kishore
Confirmation No.:	N/A	
Title:	Particles Incorporating Surfactants For Pulmonary Drug Delivery	
Patent No.:	5,855,913	Granted: January 5, 1999
Assignee:	1. Massachusetts Institute of Technology 2. The Penn State Research Foundation	
Recordation Date:	1. March 20, 1997 2. March 20, 1997	Reel: 1. 8531 2. 8529 Frames: 1. 0042-0046 2. 0138-0140

Applicants:	David A. Edwards, Robert S. Langer, Rita Vanbever, Jeffrey Mintzes, Jue Wang, and Donghao Chen	Atty. Docket No.: 2846.1003-006
Application No.:	09/394,233	Group: 1616
Filed:	September 13, 1999	Examiner: Mina Haghighatian
Confirmation No.:	3922	
Title:	Preparation of Novel Particles For Inhalation	
Patent No.:	N/A	Granted: N/A
Assignee:	1. Massachusetts Institute of Technology 2. The Penn State Research Foundation	
Recordation Date:	1. January 3, 2000 2. January 3, 2000	Reel: 1. 010504 Frames: 1. 0362-0367 2. 010504 2. 0329-0333
Applicants:	Justin Hanes, David A. Edwards, Carmen Evora, and Robert S. Langer	Atty. Docket No.: 2846.1003-007
Application No.:	09/351,341	Group: 1615
Filed:	July 12, 1999	Examiner: G. Kishore
Confirmation No.:	N/A	
Title:	Particles Incorporating Surfactants For Pulmonary Drug Delivery	
Patent No.:	RE37,053 E	Granted: February 13, 2001
Assignee:	1. Massachusetts Institute of Technology 2. The Penn State Research Foundation	
Recordation Date:	1. March 20, 1997 2. March 20, 1997	Reel: 1. 8531 Frames: 1. 0042-0046 2. 8529 2. 0138-0140

Applicants:	David A. Edwards, Robert S. Langer, Rita Vanbever, Jeffrey Mintzes, Jue Wang and Donghao Chen	Atty. Docket No.: 2846.1003-008
Application No.:	08/971,791	Group: 1616
Filed:	November 17, 1997	Examiner: K. Shelborne
Confirmation No.:	N/A	
Title:	Preparation of Particles For Inhalation	
Patent No.:	5,985,309	Granted: November 16, 1999
Assignee:	1. Massachusetts Institute of Technology 2. The Penn State Research Foundation	
Recordation Date:	1. December 22, 1997 2. December 22, 1997	Reel: 1. 9108 2. 9108 Frames: 1. 0667-0671 2. 0695-0702
Applicants:	David A. Edwards, Robert S. Langer, Rita Vanbever, Jeffrey Mintzes, Jue Wang, and Donghao Chen	Atty. Docket No.: 2846.1003-009
Application No.:	09/752,106	Group: 1616
Filed:	December 29, 2000	Examiner: Mina Haghighatian
Confirmation No.:	8230	
Title:	Particles For Inhalation Having Sustained Release Properties	
Patent No.:	N/A	Granted: N/A
Assignee:	1. Massachusetts Institute of Technology 2. The Penn State Research Foundation	
Recordation Date:	1. August 13, 2001 2. August 13, 2001	Reel: 1. 012078 2. 012078 Frames: 1. 0137-0140 2. 0156-0164

Applicants:	David A. Edwards, Robert S. Langer, Rita Vanbever, Jeffrey Mintzes, Jue Wang, and Donghao Chen	Atty. Docket No.: 2846.1003-010
Application No.:	09/909,145	Group: 1619
Filed:	July 19, 2001	Examiner: Not Assigned
Confirmation No.:	7807	
Title:	Particles For Inhalation Having Sustained Release Properties	
Patent No.:	N/A	Granted: N/A
Assignee:	1. Massachusetts Institute of Technology 2. The Penn State Research Foundation	
Recordation Date:	1. January 3, 2000 2. January 3, 2000	Reel: 1. 010504 Frames: 1. 0362-0367 2. 010504 2. 0329-0333
Applicants:	Rita Vanbever, Jeffrey Mintzes, Jue Wang, Donghao Chen, Robert S. Langer, and David A. Edwards	Atty. Docket No.: 2846.1003-011
Application No.:	60/059,004	Group: N/A
Filed:	September 15, 1997	Examiner: N/A
Confirmation No.:	N/A	
Title:	Preparation of Novel Particles for Inhalation	
Patent No.:	N/A	Granted: N/A
Assignee:	N/A	
Recordation Date:	N/A	Reel: N/A Frame(s): N/A

Applicants:	David A. Edwards, Robert S. Langer, Rita Vanbever, Jeffrey Mintzes, Jue Wang, and Donghao Chen	Atty. Docket No.: 2846.1003-012
Application No.:	09/006,091	Group: 1616
Filed:	July 12, 1999	Examiner: Mina Haghighatian
Confirmation No.:	7469	
Title:	Particles Incorporating Surfactants For Pulmonary Drug Delivery	
Patent No.:	RE37,053	Granted: February 13, 2001
Assignee:	1. Massachusetts Institute of Technology 2. The Penn State Research Foundation	
Recordation Date:	1. March 20, 1997 2. March 20, 1997	Reel: 1. 8531 2. 8529 Frames: 1. 0042-0046 2. 0138-0140
Applicants:	David A. Edwards, Robert S. Langer, Rita Vanbever, Jeffrey Mintzes, Jue Wang, and Donghao Chen	Atty. Docket No.: 2846.1003-013
Application No.:	90/006,093	Group: 1616
Filed:	August 22, 2001	Examiner: Mina Haghighatian
Confirmation No.:	7467	
Title:	Preparation Of Particles For Inhalation	
Patent No.:	5,985,309 C1	Granted: December 31, 2002
Assignee:	1. Massachusetts Institute of Technology 2. The Penn State Research Foundation	
Recordation Date:	1. December 22, 1997 2. December 22, 1997	Reel: 1. 9108 2. 9108 Frames: 1. 0667-0671 2. 0695-0702

Applicants:	Rita Vanbever, Robert S. Langer, David A. Edwards, Jeffrey Mintzes, Jue Wang, and Donghao Chen	Atty. Docket No.: 2846.1003-014
Application No.:	10/094,955	Group: 1616
Filed:	March 7, 2002	Examiner: Mina Haghighatian
Confirmation No.:	7624	
Title:	Particles For Inhalation Having Sustained Release Properties	
Patent No.:	N/A	Granted: N/A
Assignee:	1. The Penn State Research Foundation 2. Massachusetts Institute of Technology	
Recordation Date:	1. November 7, 2002 2. November 7, 2002	Reel: 1. 013470 2. 013468 Frames: 1. 0864-0867 2. 0360-0368
Application No.:	10/420,071	Group: Not assigned
Filed:	April 18, 2003	Examiner: Not assigned
Confirmation No.:	N/A	
Title:	Particles for Inhalation Having Sustained Release Properties	
Patent No.:	N/A	Granted: N/A
Assignee:	1. Massachusetts Institute of Technology 2. The Penn State Research Foundation	
Recordation Date:	1. August 13, 2001 2. August 13, 2001	Reel: 1. 012078 2. 012078 Frames: 1. 0156-0164 2. 0137-0140